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HIGHEST APPLICATION PUBLICATION NUMBER: US2001016957
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REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2001
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2001

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>>> terms from the IPC subject headings and subheadings. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s film? and (fibrous or fiber or fibre) and polyester?

464361 FILM?
63524 FIBROUS
211804 FIBER
180165 FIBERS
280644 FIBER
(FIBER OR FIBERS)
26927 FIBRE
23455 FIBRES
37828 FIBRE
(FIBRE OR FIBRES)
172374 POLYESTER?

L1 39313 FILM? AND (FIBROUS OR FIBER OR FIBRE) AND POLYESTER?

=> s resin?

L2 381305 RESIN?

=> s adhes?

L3 378929 ADHES?

=> s ink?

L4 83719 INK?

=> s l1 and l2 and l3 and l4

L5 3784 L1 AND L2 AND L3 AND L4

=> s microwav?

L6 52656 MICROWAV?

=> s 15 and 16

L7 274 L5 AND L6

=> d scan

L7 274 ANSWERS USPATFULL
AN 2001:4376 USPATFULL
TI Coated substrates
NCL NCLM: 428/411.100
NCLS: 428/195.000; 428/211.000; 428/327.000; 428/532.000
IC [7]
ICM: B32B009-04
GI

SECTION	PAGES	FORMAT	SIZE
FRONT PAGE	1	PAGE.FP	50K
DESCRIPTION	2-17	PAGE.DESC	2211K
CLAIMS	17-18	PAGE.CLM	231K
COMPLETE	1-19	PAGE.ALL	2354K

Use PAGE(n) to retrieve a specific page

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L7 274 ANSWERS USPATFULL
AN 2000:74008 USPATFULL
TI Colored articles and compositions and methods for their fabrication
NCL NCLM: 428/329.000
NCLS: 428/046.000; 428/323.000; 428/373.000; 428/474.400; 428/474.900
IC [7]
ICM: B32B005-16
GI

SECTION	PAGES	FORMAT	SIZE
FRONT PAGE	1	PAGE.FP	92K
DESCRIPTION	2-25	PAGE.DESC	3268K
CLAIMS	25-26	PAGE.CLM	175K
COMPLETE	1-26	PAGE.ALL	3412K

Use PAGE(n) to retrieve a specific page

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L7 274 ANSWERS USPATFULL
AN 1999:120827 USPATFULL
TI Matrices with memories and uses thereof
NCL NCLM: 422/068.100
NCLS: 422/055.000; 422/057.000; 422/058.000; 422/082.050; 422/102.000;
422/104.000; 436/164.000; 436/165.000; 436/518.000; 436/524.000;
436/528.000; 436/531.000; 702/019.000; 702/028.000; 702/150.000
IC [6]
ICM: G01N033-48
ICS: G01N021-01; G01N033-544; G06G007-58
GI

SECTION	PAGES	FORMAT	SIZE
FRONT PAGE	1-3	PAGE.FP	209K
DRAWINGS	4-38	PAGE.DRAW	747K
DESCRIPTION	39-118	PAGE.DESC	9443K
CLAIMS	119-119	PAGE.CLM	84K
COMPLETE	1-119	PAGE.ALL	10485K

Use PAGE(n) to retrieve a specific page

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> file .1771textile

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FILE 'USPATFULL' ENTERED AT 09:25:20 ON 17 OCT 2001

L1 39313 S FILM? AND (FIBROUS OR FIBER OR FIBRE) AND POLYESTER?

L2 381305 S RESIN?

L3 378929 S ADHES?

L4 83719 S INK?

L5 3784 S L1 AND L2 AND L3 AND L4

L6 52656 S MICROWAV?

L7 274 S L5 AND L6

FILE 'TEXTILETECH, WTEXTILES, PIRA, CAPLUS' ENTERED AT 09:31:09 ON 17 OCT 2001

=> s 15

L8 27 L5

=> dup rem

ENTER L# LIST OR (END):18

PROCESSING COMPLETED FOR L8

L9 27 DUP REM L8 (0 DUPLICATES REMOVED)

=> d bib,abs

L9 ANSWER 1 OF 27 CAPLUS COPYRIGHT 2001 ACS

AN 2001:128394 CAPLUS

DN 134:179871

TI Coating materials for sewn products containing **adhesives** and workability improvers for imparting various functional properties to the sewn products and manufacture of coating materials therefor and coating sewn products with coatings therefrom

IN Sadanari, Shigeyuki; Kimura, Masanao

PA Yuken Chemical K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI JP 2001049581 A2 20010220 JP 1999-222277 19990805
 AB The coatings essentially contain mixts. (A) comprising **adhesives**, viscosity adjustors, workability improvers, and color adjusting agents, or the coating materials comprise (A) mixts. contg. softening agents or A mixts. contg. dye discharging agents or A mixts. contg. color developing agents or A mixts. contg. water repellents or A mixts. contg. metals or vapor-deposited metal-coated substances or A mixts. contg. ceramics. Coated sewn products are prepd. by coating sewn products with A mixts. by the roller coating method, spray coating method, or printing method, drying the coating, and hot pressing the coating. Aq. aliph. **polyester**-polyurethane dispersion 40, di-Me polysiloxane 5, monoethylene glycol 5, monoethanolamine 4, alkyl ether-type nonionic surfactant 2, carboic acid 0.5, waterborne pigment 4, isocyanate crosslinking agent 4, and H2O 39.5 parts were mixed to give a coating compn. A jean was coated with the coating compn., dried, and hot pressed to give a jean exhibiting leather-like surface and showing good smoothness and luster.

=> d 2 bib, abs

L9 ANSWER 2 OF 27 CAPLUS COPYRIGHT 2001 ACS
 AN 2000:441739 CAPLUS
 DN 133:59209
 TI Synthesis of halogenated vinyl ethers as monomers for photocurable materials and their uses in optical device
 IN Anderson, Russell F.; Bradley, David E.; Nalewajek, David; Haridasan, Nair K.; Proszowski, Mariola J.; Sitzmann, Eugene V.; Swan, Ellen L.
 PA AlliedSignal Inc., USA
 SO PCT Int. Appl., 45 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000037403	A1	20000629	WO 1999-US27385	19991118
	W:				
	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6291704	B1	20010918	US 1999-271650	19990318
	EP 1140759	A1	20011010	EP 1999-960480	19991118
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	US 1998-218201	A	19981222		
	US 1999-271650	A	19990318		
	US 1998-9110	A2	19980120		
	US 1998-113207	P	19981222		
	WO 1999-US27385	W	19991118		
OS	MARPAT 133:59209				
AB	The title halogenated vinyl ethers useful in reducing surface tension, increasing non-fugitive properties of the formed film and improving light transmission of optical devices, have a general formula of R-O-X-O-CH=CH ₂ , wherein R is R1-CnHm-, R1-CnHm-CO-, R1-CnHm-CH[-O-X-O-CH=CH ₂ -], R1-CnHm-CH[-O-X-O-CH=CH ₂ -]CO-, R1-CnHm-CH[-CO-O-X-O-CH=CH ₂ -], R1-CnHm-CH[-CO-O-X-O-CH=CH ₂ -]CO-, R1-[CFC1-CF2-]pCH2- or HCFC1-CF2-, R1-CFH-CF2- or R1-CF=CF-, wherein R1 is hydrogen, (substituted) fluorinated aliph., cyclic aliph., arom., araliph., or heterocyclic				

radical; 1.ltoreq.n.ltoreq.6, n.ltoreq.m.ltoreq.2n, 1.ltoreq.p.ltoreq.20 and X is (substituted) aliph., cyclic aliph., arom., araliph., or heterocyclic radical. Thus, CF₃CF=CF(CH₂)₄OCH=CH₂ (prepd. from CH₂=CHO(CH₂)₄OH and hexafluoropropene) 0.1 pph was polymd. with a mixt. of 80% aliph. urethane diacrylate oligomer (Ebecryl 8804) and 20% hexanediol diacrylate to give a polymer, showing surface tension of cured **film** top 32, surface tension of liq. 46.9 dynes/cm, block sepn. force between top surfaces 2.6 g, and release force of **adhesive** from top surface 611 g, compared to 42, 51, 5 and 626 for a polymer sample without the fluoro monomer.

RE.CNT 7

RE

- (1) Alliedsignal; WO 9936381 A 1999 CAPLUS
 - (3) Hisamoto, I; US 4559179 A 1985 CAPLUS
 - (4) Liu, K; US 5012011 A 1991 CAPLUS
 - (5) Minns, R; US 5024507 A 1991 CAPLUS
 - (6) Sagami Chem Res Centre; JP 02000721 A 1990 CAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 3 bib, abs

L9 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2001 ACS
 AN 1999:481006 CAPLUS
 DN 131:133240
 TI Gold foil-like sheet and decorative material using it
 IN Araki, Noboru
 PA Dainippon Printing Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11207864	A2	19990803	JP 1998-26307	19980126
AB	The sheet has a rough layer with a gold foil-like pattern, a light reflective layer of a metal thin film , and a translucent colored layer, laminated on a base sheet. The sheet is bonded to a substrate with an adhesive and used as a decorative material. The gold foil-like pattern of the sheet looks real.				

=> d 4 bib, abs

L9 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2001 ACS
 AN 1999:331125 CAPLUS
 DN 131:20010
 TI Manufacture of decorative panels with glossy surface and improved durability
 IN Araki, Noboru
 PA Dainippon Printing Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11138733	A2	19990525	JP 1997-320579	19971107
AB	The panels are manufd. by (1) successively forming (A) room-temp.-solid curable polymer or uncured polymer as surface-protecting layers, (B) (transfer-printed) decorative layers, and (C) optionally fibrous				

sheet backing protecting layers on mold-releas sheets to form transfer sheets, (2) laminating the decorative layers or the backing-protecting layers of the transfer sheets with unsatd. **polyester** sheet-molding compds. (SMC) or bulk-molding compds. (BMC), (3) hot-pressing the laminates in a mold for their curing, and (4) peeling the mold-release sheets from the cured products. Thus, a 100-.mu.m Tetoron **Film** (mold-releas sheet) was coated with a UV-curable **resin**, irradiated with UV for semicuring, printed with an urethane polymer-based **ink**, laminated with Vinylon nonwoven fabric via a **polyester** isocyanate-based **adhesive** to give a transfer sheet, which was applied on a BMC (glass fabric, TiO₂, and BaSO₄-contg. plastic), placed in a mold, hot-pressed for compounding, and made Tetoron **Film** release to give a decorative panel with glossy appearance to be useful as wall materials for bathrooms.

=> d 5-27 bib, abs

L9 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2001 ACS

AN 1999:182443 CAPLUS

DN 130:268340

TI **Fiber**-reinforced plastic moldings with good printability and **adhesion** strength to decorative sheets and their manufacture

IN Araki, Noboru

PA Dainippon Printing Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11070622	A2	19990316	JP 1997-234558	19970829
AB	Title moldings are obtained by successively laminating (A) an ABS layer and (B) a biaxially stretched polyester layer on the surface of (C) a molding made of fiber -reinforced thermosetting resin cured products and unifying them. The moldings are manufd. by laminating a decorative sheet [prepd. by laminating (A) and (B)] and SMC (sheet molding compd.) or BMC (bulk molding compd.) in such a way that (A) and SMC or BMC face each other, hot-pressing them in a mold, and unifying them. Thus, a decorative sheet [T 100 [biaxially stretched poly(ethylene terephthalate) film]/NL-ALFA (printing ink) pattern layer/E 295 (polyurethane adhesive)/A 402 (colored ABS sheet) laminate] and SMC (comprising unsatd. polyesters and glass fibers) were laminated, hot-pressed in a mold, and unified to give a bathroom wall panel with good adhesion strength between the decorative sheet and the SMC.				

L9 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2001 ACS

AN 1998:661305 CAPLUS

DN 129:332351

TI Tissue paper for thermal stencil printing and manufacture thereof, with high-resolution printing, wet strength, and **ink** retention

IN Ando, Yoshiyuki; Murate, Yasunori; Ohno, Yoshikata

PA Kuraray Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10272857	A2	19981013	JP 1997-80917	19970331

AB The title paper contain 20-90% very fine **fiber** comprising (A) aq. alkali-insol. thermoplastic **resin fibers** of single **fiber** denier 0.01-0.2 and (B) aq. alkali-insol. thermoplastic **resin fibers** of single **fiber** denier .ltoreq.0.02 (.ltoreq.1/5 that of A) at A:B filament no. ratio 2:1 to 1:2, wherein the **fibers** are bonded together by .gtoreq.2 aq. alkali-insol. heat-sensitive **resins** of m.p. difference .gtoreq.30.degree.. Composite **fibers** of sea component from PET copolymd. with 5-sodiosulfoisophthalic acid, polyethylene glycol, and polyethylene glycol Bu glycidyl ether and PET island component were formed into a tissue paper together with thermal-bonding composite **fibers** of sheath and core components from PET copolymd. with isophthalic acid in different proportions, and the tissue paper was laminated with a **polyester film** using an **adhesive** to obtain a thermal stencil sheet.

L9 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2001 ACS

AN 1998:210598 CAPLUS

DN 128:271756

TI Antisoiling decorative sheets

IN Sendai, Hisami

PA Dainippon Printing Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10086314	A2	19980407	JP 1996-269457	19960919

AB Title sheets are prepd. by decoratively treating laminates of thermoplastic **resin** sheets and crosslinked coating surface layers from compns. contg. metal chelate catalysts and acrylic **resins** (A) contg. silanol, epoxy, and OH groups. Coating an elec. corona-treated PET **film** with a soln. contg. A and a Al chelate catalyst, baking, printing the other side of the PET **film** with polyurethane- and vinyl acetate-vinyl chloride copolymer-contg. colored **inks**, covering an **adhesive** on the printed surface, and laminating a colored PVC sheet on the **adhesive** surface gave a decorative sheets, which could be bound on steel panels.

L9 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2001 ACS

AN 1997:192143 CAPLUS

DN 126:187055

TI Surface treatment of polymers for improved **adhesion** or wettability

IN Wu, Dong Yang; Li, Sheng; Gutowski, Wojciech Stanislaw

PA Commonwealth Scientific and Industrial Research Organisation, Australia;

Wu, Dong Yang; Li, Sheng; Gutowski, Wojciech Stanislaw

SO PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9702310	A1	19970123	WO 1996-AU407	19960628
	W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG			
	RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA			

CA 2224780	AA	19970123	CA 1996-2224780	19960628
AU 9661830	A1	19970205	AU 1996-61830	19960628
AU 695160	B2	19980806		
EP 835279	A1	19980415	EP 1996-920639	19960628
R: BE, CH, DE, ES, FR, GB, IT, LI, NL, SE, IE				
CN 1192224	A	19980902	CN 1996-195875	19960628
BR 9609594	A	19990223	BR 1996-9594	19960628
PRAI AU 1995-3886		19950630		
AU 1995-6554		19951115		
WO 1996-AU407		19960628		

AB At least a part of the surface of a polymer is modified by (i) oxidizing at least part of the surface of the polymer and (ii) treating the oxidized surface with .gtoreq.1 multifunctional amine-contg. org. compd.; the surface is then preferably rinsed to remove unreacted amine. Thus, high-d. polyethylene was exposed to corona discharge in air (151 mJ/mm2), dipped in a 5% soln. of triethylenetetramine in iso-PrOH, rinsed with H2O and EtOH, and bonded with Loctite 406 to show lap shear strength 14.7 MPa, vs. 0.3 MPa for untreated HDPE and 0.9 MPa when the rinsing step was omitted.

L9 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1997:399531 CAPLUS
DN 127:35504
TI Printed sheets having carbon weave patterns and **adhesive** sheets
IN Tatsumoto, Nobuhiko
PA Kuramoto Sangyo Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09099624	A2	19970415	JP 1995-259630	19951006
AB	<p>Sheets useful for decoration and adhesive labels without using carbon fibers are prepd. by screen printing parallel stripes on a substrate with neighboring unit patterns arranged orderly, coating with a transparent resin to enhance appearance, screen printing another pattern in agreement with the previous pattern, and coating an adhesive on the rear. Thus, a polyester film having an SK Dyne 1604N acrylic adhesive contg. an L 45 hardener on the rear side was printed with Sericol EG 911 (polyester black ink) to form a pattern, coated with a transparent Sericol VK 000 soln., dried, printed with the same ink, and coated with a polyurethane lacquer.</p>				

L9 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1997:278704 CAPLUS
DN 126:252145
TI **Polyester** cloth-based thermosensitive porous printing plates
IN Iwasaki, Nobuhiro; Sakata, Yoshihiro
PA Gen Corp, Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09048183	A2	19970218	JP 1995-202965	19950809
AB	<p>The title plates, giving uniform printing d. without moire, are prepd. by laminating an ink-impermeable thermoplastic resin film (e.g., 2-.mu.m heat-shrinkable PET film) with a</p>				

resin layer (e.g., of nitrocellulose, EVA), a pattern printing layer (e.g., of amino **resins**), and a embossed pattern layer (e.g., of polyurethanes) on a **polyester** nonwoven of 0.2-0.5 denier **fibers** and having wt. 8-150 g/m2 and thickness 30-150 .mu.m.

L9 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2001 ACS

AN 1996:631955 CAPLUS

DN 125:249900

TI Mimeographic printing plate and its preparation

IN Watanabe, Hideo; Ikeda, Hiroyuki

PA Riso Kagaku Corp, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08197708	A2	19960806	JP 1995-12789	19950130

PI The title plate, due to noncontact perforation, giving no defect for perforation, no wrinkle, and good printed products, comprises a porous supporter (e.g., of **polyester fiber** cloths, Japanese paper) and a solvent-sol. **resin** layer (e.g., polycarbonate **film** laminated with blue colored vinyl acetate-vinyl chloride copolymer-based **adhesive**, sol. in isopropanol-MEK-MePh mixt.), providing the color or tint of the perforated part is different from the other part.

L9 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2001 ACS

AN 1996:446560 CAPLUS

DN 125:88578

TI Thermal mimeographic printing base sheets

IN Yamauchi, Hideyuki; Kida, Kenji; Kawazu, Yukio

PA Toray Industries, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08104072	A2	19960423	JP 1994-242694	19941006

PI The title sheets, with good perforating property, printability, and mech. strength, are prepd. by laminating a thermoplastic **resin film** with birefringence (.DELTA.n) 10-1-10-3 [e.g., stretched poly(ethylene isophthalate-terephthalate)] and a porous **fibrous** supporting sheet with .DELTA.n (5 .times. 10-1)-10-4 (e.g., of stretched PET nonwoven) without using **adhesives**.

L9 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2001 ACS

AN 1996:307471 CAPLUS

DN 124:319373

TI Manufacture of **polyester** decorative panels

IN Suzuki, Hitoshi; Nishimura, Ikumasa; Niina, Katsuyuki

PA Toppan Printing Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

polypropylene fabric was coated with an aq. sealant contg. sapond. poly(vinyl alc.), laminated with a thermal-transfer sheet using an acrylic **resin adhesive**, thermally printed, and peeled off the sheet to give a printed fabric.

L9 ANSWER 18 OF 27 CAPLUS COPYRIGHT 2001 ACS

AN 1992:428314 CAPLUS

DN 117:28314

TI **Adhesive films** for electroless plating and manufacture of printed circuit boards

IN Yamazaki, Hiroshi; Fujita, Eiji; Kawamoto, Mineo; Suwa, Tokihito; Yoshimura, Toyofusa; Tanji, Kazuo

PA Hitachi Chemical Co., Ltd., Japan; Hitachi, Ltd.

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03277677	A2	19911209	JP 1990-77502	19900327
	JP 2643528	B2	19970820		

AB **Adhesive film** providing printed circuit boards with good peel **adhesion** and solder heat resistance comprise a support and an **adhesive** layer, where the support is a **polyester film** treated with a polyolefin type release agent. Coating on a polyolefin-treated Tetron **film** (RO 2) with an epoxy **adhesive** soln., covering the dried **film** (30 .mu.m) with a 30-.mu.m polyethylene (I) **film**, hot laminating the **adhesive** layers over the two surfaces of a phenolic **resin** -paper laminate (0.8 mm) while removing I **film**, UV curing the **adhesive** layers, roughening the **adhesive** surface with an acid treatment, activating the roughened surface with Pd catalyst and oxalic acid/hydrochloric acid treatment, applying a resist **ink** over the **adhesive** surface, UV curing the resist, and electroless plating gave a laminate with a patterned 30-.mu.m Cu **film**.

L9 ANSWER 19 OF 27 CAPLUS COPYRIGHT 2001 ACS

AN 1991:493546 CAPLUS

DN 115:93546

TI Surface modification of polymers, the effects on interfacial **adhesion**

AU Gatenholm, P.

CS Scand. Paint Print. Ink Res. Inst., Hoersholm, 2970, Den.

SO Adv. Org. Coat. Sci. Technol. Ser. (1991), 13, 335-44

CODEN: AOCSDV; ISSN: 0271-1885

DT Journal

LA English

AB Polymers were surface modified to improve wetting and **adhesion**. Chem. reactions between surfaces of cellulose **fibers** and tailor-made polymerizable coupling agents were studied using ESCA. Double bond-terminated cellulose polymd. easily with monomers such as styrene which improved **adhesion** between cellulose and **resin** in wet conditions. Polypropylene (I) **films** were surface modified by plasma polymn. of hydrophilic monomers such as acrylic acid (II) and hydroxyethylmethacrylate (III) and radiation-induced grafting. Both methods of surface polymn. resulted in permanent hydrophilic surfaces as shown by contact angle measurements. ESCA showed the same surface concn. of II and III. II gave, however, a more hydrophilic surface. Radiation induced grafting of III resulted in a visible layer of poly-III (opaque). Such a layer was indicated by FTIR-ATR whereas plasma gave only a monomol. layer - not indicated by FTIR. Both methods of surface polymn. of hydrophilic monomers onto I resulted in improved wetting of waterborne

printing **inks**.

L9 ANSWER 20 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1988:205713 CAPLUS
DN 108:205713
TI Laminates for coloration
IN Blanquart, Philippe
PA Societe Anon. Papeteries R. et P. Blanquart, Fr.
SO Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DT Patent
LA French
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 248750	A1	19871209	EP 1987-440019	19870330
	R: AT, BE, CH, DE, ES, GB, GR, IT, LI, LU, NL, SE				
	FR 2597128	A1	19871016	FR 1986-5397	19860410
	FR 2597128	B1	19880729		
	FR 2611587	A1	19880909	FR 1987-3507	19870306
PRAI	FR 1986-5397		19860410		
	FR 1987-3507		19870306		

AB The title laminates, which can be prepd. in a single step and are useful in coloring paper, binding books, etc., consist of a support layer forming the front and a plasticized **film** forming the back, bonded by a solvent-based epoxy **resin** contg. a coloring agent. A laminate was prepd. from bright paper (90 g/m²), a 12-.mu. polypropylene **film**, and an **adhesive** (20 g/m²) contg. an epoxy **resin** 10, polyisocyanate 1, iso-PrOAc 7.92, yellow **ink** 5, and decolorizing varnish 2.5 kg by calendering at 45.degree./1 ton.

L9 ANSWER 21 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1986:444966 CAPLUS
DN 105:44966
TI Typewriter ribbons
IN Kobayashi, Katsuhiko; Tanaka, Takeshi
PA Pilot Pen Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61011279	A2	19860118	JP 1984-133944	19840628
	JP 03080437	B4	19911224		

AB A pressure-transfer typewriter ribbon giving a print character maintaining the original darkness after several striking cycles and having high **ink** bleeding resistance during storage comprises a base **film** and a microporous **resin** layer from a 60-86:14-40 blend of vinyl chloride-vinyl acetate copolymers (I) with d.p. 250-350, 360-450, and 800-900 at 1-3:5:1-3 ratio and contains an impregnated **ink** in addn. to 5-30% powd. **fiber**. Thus, an **ink** compn. comprising carbon black 8.6, Alkali blue toner 2.9, sorbitan sesquioleate 18.5, rape seed oil 10.0, 86:14 I with d.p. 320 5.3, 68:32 I with d.p. 400 9.2, 60:40 I with d.p. 880 3.9, MEK 68, PhMe 36, and hydrolyzed powd. cellulose 6.8 parts was coated on a **polyester adhesive**-coated 7.5-.mu. poly(ethylene terephthalate) **film** to a thickness of 16 .mu. to give a typewriter ribbon exhibiting the desired properties.

L9 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1985:97095 CAPLUS

DN 102:97095
 TI Thermal transfer sheets
 PA Matsui Shikiso Kagaku Kenkyusho Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59115885	A2	19840704	JP 1982-230137	19821222
	JP 02013917	B4	19900405		

AB The sheets for transferring flock patterns with good tone graduation to fabrics and paper are manufd. by spray coating a layer of short **fibers** on release **film** with a pigmented acrylic **resin** emulsion to form a graduated pattern layer, drying or heat treating, then forming a hot-melt **adhesive** layer on at least part of the pattern layer, and heat treating the sheet again. Thus, paper was coated with Matsuminsol MR-96 (I) [94556-34-0] (acrylic copolymer emulsion) **ink**, covered with white rayon pile (0.8-mm **fibers**), dried, spray coated with red, yellow, and blue I compns. in a striped pattern, and dried. An **adhesive** contg. Daiamid 450 P-1 [94555-51-8] (polyamide) and Ultrasol 6150H [94587-06-1] (vinyl acetate polymer emulsion), and TiO2 was screen printed in the form of a letter on the colored flock, dried, and heated to 130.degree. for 5 min to give a heat transfer sheet. The sheet was pressed with an iron onto cotton-**polyester** knitted fabric and the release-coated paper peeled off to give fabric printed with a multicolored flocked letter.

L9 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2001 ACS
 AN 1980:409286 CAPLUS
 DN 93:9286
 TI Composition and method for raising vertically cohesive **ink** characters from a substrate
 IN Krampe, Steph E.; Pierce, James N.
 PA Minnesota Mining and Mfg. Co., USA
 SO Braz. Pedido PI, 29 pp.
 CODEN: BPXXDX
 DT Patent
 LA Portuguese
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BR 7805980	A	19790502	BR 1978-5980	19780913
	FR 2403372	A1	19790413	FR 1978-26331	19780913
	GB 2006235	A	19790502	GB 1978-36643	19780913
	JP 54056533	A2	19790507	JP 1978-112869	19780913
	AU 7839820	A1	19800320	AU 1978-39820	19780913
PRAI	US 1977-833287		19770914		

AB A compn. with good **adhesion** to vertically cohesive print and low (0) **adhesion** to paper, useful in the prepn. of correction tapes or ribbons for typewriters, comprises 15-75 wt.% thermal plastic synthetic **resin adhesive**, 30-75 wt.% compatible plasticizer, and 0-50 wt.% of a compatible **adhesion-modifying resin**. Thus, a typewriter ribbon producing vertical print characters was prepd. by coating a 0.0165-mm **polyester film** with a compn. contg. EtOAc 15.0, Et cellulose 0.7, dioctyl phthalate 2.5, benzyl benzoate 2.5, and pigment 2.0 parts to a thickness of 0.019 mm. A correction tape was prepd. by coating a 0.03-mm **polyester film** to 0.08 mm thickness with a mixt. of toluene 100, polyamide **resin** 5, dimer acid 10, ethylene-vinyl acetate copolymer [24937-78-8] 10, and poly(vinyl butyral) 2 parts and air drying. When both articles were used in a typewriter, a typed character could be easily

lifted using the correction tape with no tendency to tear the paper
fibers.

L9 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1975:548995 CAPLUS
DN 83:148995
TI Composite paper-backed fabric
IN Matumura, Syoichi; Maeda, Akio; Ishii, Toyota
PA Toray Industries, Inc., Japan
SO Brit., 6 pp.
CODEN: BRXXAA
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	GB 1394256	A	19750514	GB 1972-44949	19720929
AB	Peelable composite paper-backed fabrics for ink -printing were manufd. by applying a thermoplastic resin as a net or powder to a paper sheet, applying a fabric to the treated face of the paper, and heating the assembly to melt the resin and adhere fabric and paper together. Thus, a 15-16 g/m2 polyethylene [9002-88-4] net, made by embossing and biaxiall stretching a film , was inserted between sheets of M. F. unbleached Kraft paper and 70 denier 108 warp and 95 filaments/2.54 cm weft nylon taffeta. The assembly was heated 10 sec at 150.degree. and 240 g/cm2. Laminates were printed at 3000 sheets/hr without misregistration or feeding, printing plate, or peeling problems. The fabric, peel strength 52-68 g/cm width, was stripped off the backing by hand. Eight other examples were given.				

L9 ANSWER 25 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1971:55051 CAPLUS
DN 74:55051
TI Dyeable and printable polyamides comprising polycaprolactam polymerized
with diethanolamine
IN Reimschuessel, Herbert K.; Dege, Gerald J.; Fuhrmann, Robert
PA Allied Chemical Corp.
SO U.S., 4 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 3555114	A	19710112	US 1968-766691	19681011
	NL 6915327	A	19700414	NL 1969-15327	19691009
	BE 740140	A	19700316	BE 1969-740140	19691010
	FR 2020427	A5	19700710	FR 1969-34814	19691010
PRAI	US 1968-766691		19681011		
AB	.epsilon.-Caprolactam (I) modified with diethanolamine (II) gave amine-terminated polymers with improved printability, adherability, and film clarity; blends of this modified polyamide and a nylon 6-poly(ethylene terephthalate) resin had excellent tear properties. For example, a 50:1 I-II copolymer was prepd. by heating the mixt. 22 hr at 255.degree. in aminocaproic acid catalyst and subsequent melt extrusion at 245.degree.. Two inks were applied to films samples and air-dried at room temp.; adhesive tape when applied to inked film and peeled off showed 90-100% ink retention for the I-II copolymer film while a conventional nylon 6 film retained <1% ink . Extruded monofilaments had improved dye absorption.				

L9 ANSWER 26 OF 27 CAPLUS COPYRIGHT 2001 ACS

AN 1967:106020 CAPLUS
DN 66:106020
TI Treatment of synthetic **resinous** material to increase wettability
IN Mantell, Russell M.
PA Aerochem Research Laboratories, Inc.
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3309299		19670314	US	19630822

AB Polyolefins, **polyesters**, and polyamide **fibers** and **films** with improved wettability were prepd. by treatment with a monoatomic O or N gas stream resulting from treatment of the diatomic gas with an elec. discharge. Thus, a 1-mil. polypropylene **film** was coated with a printing **ink**, a lacquer, and india **ink** and the scratch resistance tested. One set of samples was exposed to a stream of O atoms for 1 sec. at a rate of 5 .times. 10⁻³ mole/sec. resulting from 1 ampere discharge current at 1 Kv. A second group were exposed 15 min. and a control set was not exposed. Scratching with a stylus removed the coating control in a few strokes, but the treated samples were both rated excellent. The peel strength of polyethylene **films** was increased from 356 g./in. to 420 g./in. after 1 sec. exposure, and to 1012 g./in. after 15 min. exposure. Monatomic air and N yielded similar increases.

L9 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1967:105837 CAPLUS
DN 66:105837

TI **Polyesters** or polycarbonates coated with cured unsaturated **polyester resins** containing nitrogen
IN Caldwell, John R.
PA Eastman Kodak Co.
SO U.S., 4 pp.
CODEN: USXXAM

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3309222		19670314	US	19610421

AB The dyeability and printability of the title compds. were increased by coating with a N-contg. **polyester** (I) finishing compn. Thus, HO₂C(CH₂)₄CO₂H (II) 17.5, maleic anhydride 7.8, triethylene glycol (III) 25.5, (HOCH₂CH₂)₂NMe 4.76, and Bu₂SnO 0.05 g. were heated 2 hrs. at 180-200.degree. and 1.5 hrs. at 220.degree. to yield a stiff sol. gum (IV). IV (4 g.) was dissolved in 100 cc. CH₂Cl₂ with traces of Co and Mn naphthenate added. The soln. was used to apply a 0.3-0.5 mil coating to poly(ethylene terephthalate) (V) **films**, which were then cured 1 hr. at 110.degree.. After 30 min. in a 90-100.degree. dyebath contg. an acid wool dye (C.I. 57), HOAc, and Na₂SO₄, the **film** was a deep violet. A **polyester** coating prepd. from II, maleic acid, and III was only slightly tinted, indicating the importance of the amino group. The **films** also showed improved printing-**ink** receptivity. A terephthalic acid-cyclohexanedimethanol **polyester** was printed with the soln. and immersed in Acid Yellow 36 to yield yellow printed areas. V fabric when treated with the soln., sprayed with Me toluenesulfonate in EtOH, and heated at 90-100.degree. for 2 hrs. yielded a fabric with improved antistatic properties. Other **polyesters** used were poly(1,4-cyclohexanedimethyl terephthalate), ethylene glycol-terephthalic acid-isophthalic acid **polyester**,

1,2-bis(4-carboxyphenoxy)ethane-ethylene glycol **polyester**, terephthalic acid-succinic acid-1,4-cyclohexanedimethanol **polyester**, and 4,4'-diphenic acid-tetramethylene glycol **polyester**. Coating compns. were also prepd. from adipic acid, glycerol .alpha.-allyl ether, and an ethylene glycol bis(aminopropyl ether); from o-phthalic acid, 2,5-pyridinedicarboxylic acid, and glycerol .alpha.-allyl ether; from isophthalic acid, glycerol .alpha.-allyl ether, and monoethanolamine; from adipic acid, 2-methyl-2-allyloxymethyl-1,3-propane diol, and N-phenyldiethanolamine; and from fumaric acid, tris(carboxymethyl)methylamine, and hexamethylene glycol.

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